

Corrected

September 5, 2007

Via Electronic Mail

#### WAIVER—EXPEDITED ACTION REQUESTED

Mr. Derek Poarch Chief, Public Safety and Homeland Security Bureau Federal Communications Commission Washington, D.C. 20554

Re: Request for Waiver of Pierce Transit, Matter of Service Rules for the 698-746, 747-762 and 777-792 MHz Bands et al., WT Docket No. 06-150, PS Docket NO. 06-229, WT Docket No. 96-86, FCC 07-132 ("700 MHz Second Report and Order")

#### Dear Mr. Poarch:

Further to the request of Dana Shaffer, Deputy Chief of the FCC's Public Safety and Homeland Security Bureau, Pierce Transit hereby supplements its August 30, 2007, waiver request (the "August 30 Waiver Request") to certain requirements in the 700 MHz Second Report and Order in order to include several additional items requested by Ms. Shaffer. In all other respects, the information contained in the August 30 Waiver Request remains unchanged. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the August 30 Waiver Request.

- 1. Attachment A, hereto are relevant excerpts from Pierce Transit's 700 MHz equipment contract with Motorola (the "Motorola Agreement") showing the effective date of that agreement.
- 2. Attachment B, hereto lists all equipment that has been received under the Motorola Agreement and Pierce Transit certifies that this is the equipment that will need to be relocated in the future in connection with the reconfiguration of the 700 MHz Band.
- 3. Attachment C hereto is a summary of the equipment that is deployed and operating in the field as of August 30, 2007, as well as the current deployment schedule showing projected numbers of base stations and radios that will be activated between now and the conclusion of our project.

- 4. The 700 MHz equipment that Pierce Transit has received is incompatible with and not interoperable with our existing 900 MHz system.
- 5. Pierce Transit is respectfully requesting a waiver of the August 30, 2007 Deadline for operating new systems in the recently reconfigured frequency bands of the 700 MHz spectrum until June 30, 2008. Pierce Transit understands that if we are granted new frequencies prior to the end of this requested waiver that we will immediately prepare to move to the new channels.
- 6. Finally, Pierce Transit is requesting a waiver of the requirement in the 700 MHz Second Report and Order to certify equipment in the 700 MHz Band deployed as of August 30, 2007.

Please feel free to contact Ron Moyer at (253) 581-8022 or <a href="moyer@piercetransit.org">rmoyer@piercetransit.org</a> if you have questions or need further information to support a favorable decision. I look forward to your response to our request.

Respectfully submitted,

Lynne Griffith

Chief Executive Officer

#### Attachments

cc: Dana Shaffer, Deputy Chief, Public Safety and Homeland Security Bureau Jeff Cohen, Senior Legal Counsel
Jon Wiswell, Region 43 – 700 MHz Planning Committee Chair
Martin Stern, Esq., K&L Gates
John Eagler, Macro Corporation
Lenny Gemar, Motorola

## Attachment A -Pierce Transit Contract PT-10-05 (Excerpt)

Master Agreement with Motorola for Design and Implementation of a Radio and CAD/AVL System (Excerpt)

# MASTER AGREEMENT PT-10-05



# BETWEEN MOTOROLA AND PIERCE TRANSIT FOR DESIGN AND IMPLEMENTATION OF A RADIO AND CAD/AVL SYSTEM

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Exhibit R - Training Plan

# 1. GENERAL INFORMATION AND INSTRUCTIONS TO PROPOSERS REVISED AND INCORPORATED

This Agreement is made this 1st day of March, 2006, between the Pierce County Transportation Benefit Area Corporation (hereinafter referred to as "Pierce Transit") and Motorola, Inc, (hereinafter referred to as "Contractor")

#### 1.1. INTRODUCTION

Pierce Transit sought proposals for a CAD/AVL System. The term "CAD/AVL System" is used to encompass ALL hardware, software, and services being procured under this Master Agreement, INCLUDING all radio system hardware, software and services. Although specific references are made to the "radio system", the radio system is a component of the overall CAD/AVL System, as defined herein. Procurement was made by a competitive negotiated method as described in Section III. A pre-proposal conference was held on April 4, 2005 at 9:00 a.m. at Pierce Transit's Lakewood Training Center, 6132 Motor Avenue, Colonial Center, Lakewood, WA 98499. Proposals were received by Pierce Transit, Purchasing Department not later than 4:00 p.m. on July 25, 2005.

The Contract Documents resulting from this Request for Proposals are this Master Agreement consisting of the referenced and incorporated documents and law herein and two Task Orders. Task Order 1 system design and completion of the entire voice and data radio system (See Section 1 and 10, Exhibit A); Task Order 2 completion of CAD/AVL system including required integration (See Section 1 – 9, Exhibit A).

#### 1.2. NOT USED

#### 1.3. CODE ESCROW

Pierce Transit requires that all source code, software maintenance tools, data, and other system files required for maintaining and modifying the CAD/AVL System software be placed in escrow, pursuant to a Source Code Escrow Agreement between Pierce Transit and the CAD/AVL System Subcontractor, to ensure its availability in the event the Contractor or a Subcontractor becomes financially insolvent or otherwise becomes unwilling or unable to perform future software maintenance required by Pierce Transit.

#### 1.4. CONTRACTOR'S ACKNOWLEDGEMENT

The Contractor will be deemed to have certified to Pierce Transit that the Contractor has fully investigated and become completely familiar with the Contract Document requirements, operating conditions throughout Pierce Transit's service area and applicable local, state and federal laws and regulations relating to the Master Agreement. Pierce Transit will not consider claims for additional compensation based upon the contractor's lack of knowledge of such documents, statutes,

IN WITNESS THEREOF, the parties hereto have signed this Agreement on the day and year as written above.

PIERCE COUNTY PUBLIC

MOTOROLA, INC.

TRANSPORTATION BENEFIT AREA CORPORATION

Don S. Monroe

Chief Executive Officer

Daniel J. Delaney

MCEI Vice President and Director, Sales

Wayne Fanshier

Vice-President of Finance and

Administration

ATTEST:

Sandy Byers, CMC

Clerk of the Board

#### Attachment B

## **Pierce Transit**

## 700 MHz Equipment List and Description

Pierce Transit Equipment - RF Sites

| Site                         | BidItm             | Qty | Nomenclature               | Description  |
|------------------------------|--------------------|-----|----------------------------|--|
| Puyallup Site                |                    |     |                            |  |
| Puyallup                     | Misc               |     | 5 DQ25046066               | B LINE SELF SUPPORTING ZONE 4 RACK                         |
| Puyallup                     | Misc               |     | 4 DQSB86283D084FB          | COOPER B LINE CABLE MGMT                                   |
| Puyallup                     | Misc               |     |                            | CABLE MANAGEMENT BACK COVER                                |
| Puyallup                     | Misc               |     | 1 DSMPS16T1                | 16 T1 PROTECTOR  |
| Puyallup                     | Misc               |     | 1 DS1400                   | 120V 2-20A RACK MOUNT SURGE PROTECT                        |
| Puyallup                     | PrimeCntrl         |     | 2 T7038                    | GCP 8000 SITE CONTROLLER                                   |
| Puyallup                     | Prime ATAC         |     | 8 T6507                    | ASTRO-TAC 9600 COMPARATOR                                  |
| Puyallup                     | TeNSr              |     | 2 DSPREM891830             | UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK                 |
| Puyallup                     | Network            |     | 2 ST6000                   | S6000 MNR MULTI-PROTOCOL ROUTER                            |
| Puyallup                     | Network            |     | 2 ST6010                   | S6000 4-PORT ULTRAWAN MODULE                               |
| Puyallup                     | Network            |     | 2 DSJ4900B                 | HP PROCURVE SWITCH 2626B                                   |
| Puyallup                     | Trak               |     | 1 DSTRAK91008DC            | PRIME/MASTER SITE CONFIG DC POWER                          |
| Puyallup                     | Trak<br>GTR8000    |     | 2 DSTRAK91061<br>8 T7039   | FOUR PORT DDM<br>GTR 8000 BASE RADIO                       |
| Puyallup                     | GTR8000<br>GTR8000 |     | 8 X153AW                   | ADD: RACK MOUNT HARDWARE                                   |
| Puyallup<br>Puyallup         | GTR8000            |     | 8 CA00855AA                | ADD: 700/800 MHZ MID POWER                                 |
| , ,                          | GTR8000            |     |                            |  |
| Puyallup<br>Puyallup         | GTR8000<br>GTR8000 |     | 8 CA00025AF<br>8 CA00882AA | ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER |
| Puyallup                     | TXRX Mux           |     | 1 DQ7483B05619E11          | COMBINER & MULTICOUPLER TXRX 764-806 MHZ                   |
| Puyallup                     | Network            |     | 1 DSJ4900B                 | HP PROCURVE SWITCH 2626B                                   |
| Puyallup                     | AntennaSys         |     | 1 DB860-A                  | TX ANTENNA   |
| Puyallup                     | AntennaSys         |     | 1 DB860-A                  | RX ANTENNA   |
| Puyallup                     | AntennaSys         |     | 2 AntennaSys               | ANTENNA SYSTEM CABLES/CONN/MISC                            |
|                              |                    |     |                            |  |
| Indian Hill Site IndianHill  | Misc               |     | 3 DQ25046066               | B LINE SELF SUPPORTING ZONE 4 RACK                         |
| IndianHill                   | Misc               |     | 2 DQSB86283D084FB          | COOPER B LINE CABLE MGMT                                   |
| IndianHill                   | Misc               |     |                            | CABLE MANAGEMENT BACK COVER                                |
| IndianHill                   | Misc               |     | 1 DSE129                   | 120V 15A RACK MOUNT WITH 6 SURGE P                         |
| IndianHill                   | TeNSr              |     | 1 DSPREM891830             | UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK                 |
| IndianHill                   | GTR8000            |     | 8 T7039                    | GTR 8000 BASE RADIO  |
| IndianHill                   | GTR8000            |     | 8 X153AW                   | ADD: RACK MOUNT HARDWARE                                   |
| IndianHill                   | GTR8000            |     | 8 CA00855AA                | ADD: 700/800 MHZ MID POWER                                 |
| IndianHill                   | GTR8000            |     | 8 CA00025AF                | ADD: MULTI SITE BASE RADIO SOFTWARE                        |
| IndianHill                   | GTR8000            |     | 8 CA00882AA                | ADD: 700 MHZ TX FILTER                                     |
| IndianHill                   | TXRX Mux           |     | 1 DQ7483B05619E11          | COMBINER & MULTICOUPLER TXRX 764-806 MHZ                   |
| IndianHill                   | Network            |     | 1 ST2500                   | S2500 MULTIPROTOCOL WAN ROUTER                             |
| IndianHill                   | Network            |     | 1 ST2511                   | S2500 FLEXWAN DAUGHTER BOARD                               |
| IndianHill                   | Network            |     | 1 DKN6119                  | CABLE, V.35, FLEXWAN, DTE 10FT                             |
| IndianHill                   | Network            |     | 1 DSJ4900B                 | HP PROCURVE SWITCH 2626B                                   |
| IndianHill                   | Trak               |     | 1 DSTRAK91009DC            | REMOTE SITE CONFIG DCPOWER                                 |
| IndianHill                   | Trak               |     | 2 DSTRAK91061              | FOUR PORT DDM  |
| IndianHill                   | AntennaSys         |     | 1 LPA-75063-4CF            | TX ANTENNA   |
| IndianHill                   | AntennaSys         |     | 1 DB878H120E               | RX ANTENNA   |
| IndianHill                   | AntennaSys         |     | 2 AntennaSys               | ANTENNA SYSTEM CABLES/CONN/MISC                            |
| <b>Purdy Transfer Statio</b> |                    |     |                            |  |
| Purdy                        | Misc               |     | 3 DQ25046066               | B LINE SELF SUPPORTING ZONE 4 RACK                         |
| Purdy                        | Misc               |     | 2 DQSB86283D084FB          | COOPER B LINE CABLE MGMT                                   |
| Purdy                        | Misc               |     | 2 DQSB862BRC3084FB         | CABLE MANAGEMENT BACK COVER                                |
| Purdy                        | Misc               |     | 1 DSE129                   | 120V 15A RACK MOUNT WITH 6 SURGE P                         |
| Purdy                        | TeNSr              |     | 1 DSPREM891830             | UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK                 |
| Purdy                        | GTR8000            |     | 8 T7039                    | GTR 8000 BASE RADIO  |
| Purdy                        | GTR8000            |     | 8 X153AW                   | ADD: RACK MOUNT HARDWARE                                   |
| Purdy                        | GTR8000            |     | 8 CA00855AA                | ADD: MULTI SITE BASE PADIO SOFTWARE                        |
| Purdy                        | GTR8000<br>GTR8000 |     | 8 CA00025AF<br>8 CA00882AA | ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER |
| Purdy                        | 011/0000           |     | O CAUUOOZAA                | ADD. 100 WILL IN FILTER                                    |

## Attachment B

### **Pierce Transit**

| 700 MHz F | -quipment | l ist and | Description |
|-----------|-----------|-----------|-------------|
|-----------|-----------|-----------|-------------|

| Purdy<br>Purdy<br>Purdy<br>Purdy<br>Purdy  | TXRX Mux<br>Network<br>Network<br>Network<br>Network<br>Trak<br>Trak  | 1 DQ7483B05619E11<br>1 ST2500<br>1 ST2511<br>1 DKN6119<br>1 DSJ4900B<br>1 DSTRAK91009DC   | COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM  |
|--|---|---|---|
| Purdy<br>Purdy<br>Purdy<br>Purdy   | AntennaSys<br>AntennaSys<br>AntennaSys  | 2 DSTRAK91061<br>1 DB844H90E<br>1 DB878H120E<br>2 AntennaSys  | TX ANTENNA RX ANTENNA ANTENNA SYSTEM CABLES/CONN/MISC   |
| Top Hat Site   |   |   |   |
| Top Hat  | Misc  | 3 DQ25046066  | B LINE SELF SUPPORTING ZONE 4 RACK  |
| Top Hat<br>Top Hat   | Misc<br>Misc  | 2 DQSB86283D084FB   | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER  |
| Top Hat  | Misc  | 1 DSE129  | 120V 15A RACK MOUNT WITH 6 SURGE P  |
| Top Hat  | TeNSr   | 1 DSPREM891830  | UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK  |
| Top Hat  | GTR8000   | 8 T7039   | GTR 8000 BASE RADIO   |
| Top Hat  | GTR8000   | 8 X153AW  | ADD: RACK MOUNT HARDWARE  |
| Top Hat  | GTR8000   | 8 CA00855AA   | ADD: 700/800 MHZ MID POWER  |
| Top Hat  | GTR8000   | 8 CA00025AF   | ADD: MULTI SITE BASE RADIO SOFTWARE   |
| Top Hat  | GTR8000   | 8 CA00882AA   | ADD: 700 MHZ TX FILTER  |
| Top Hat  | TXRX Mux  | 1 DQ7483B05619E11   | COMBINER & MULTICOUPLER TXRX 764-806 MHZ  |
| Top Hat<br>Top Hat   | Network<br>Network  | 1 ST2500<br>1 ST2511  | S2500 MULTIPROTOCOL WAN ROUTER<br>S2500 FLEXWAN DAUGHTER BOARD  |
| Top Hat  | Network   | 1 DKN6119   | CABLE, V.35, FLEXWAN, DTE 10FT  |
| Top Hat  | Network   | 1 DSJ4900B  | HP PROCURVE SWITCH 2626B  |
| Top Hat  | Trak  | 1 DSTRAK91009DC   | REMOTE SITE CONFIG DCPOWER  |
| Top Hat  | Trak  | 2 DSTRAK91061   | FOUR PORT DDM   |
| Top Hat  | AntennaSys  | 1 DB844H90E   | TX ANTENNA  |
| Top Hat  | AntennaSys  | 1 DB878H120E  | RX ANTENNA  |
| Top Hat  | AntennaSys  | 2 AntennaSys  | ANTENNA SYSTEM CABLES/CONN/MISC   |
|  |   |   |   |
| Graham Hill Site   |   |   |   |
| Graham Hill Site Graham  | Misc  | 3 DQ25046066  | B LINE SELF SUPPORTING ZONE 4 RACK  |
|  | Misc<br>Misc  | 3 DQ25046066<br>2 DQSB86283D084FB   | B LINE SELF SUPPORTING ZONE 4 RACK<br>COOPER B LINE CABLE MGMT  |
| Graham   |   | <ul><li>2 DQSB86283D084FB</li><li>2 DQSB862BRC3084FB</li></ul>  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER  |
| Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc  | 2 DQSB86283D084FB<br>2 DQSB862BRC3084FB<br>1 DSE129   | COOPER B LINE CABLE MGMT<br>CABLE MANAGEMENT BACK COVER<br>120V 15A RACK MOUNT WITH 6 SURGE P   |
| Graham<br>Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc<br>TeNSr   | 2 DQSB86283D084FB<br>2 DQSB862BRC3084FB<br>1 DSE129<br>1 DSPREM891830   | COOPER B LINE CABLE MGMT<br>CABLE MANAGEMENT BACK COVER<br>120V 15A RACK MOUNT WITH 6 SURGE P<br>UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK   |
| Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc<br>TeNSr<br>GTR8000  | 2 DQSB86283D084FB<br>2 DQSB862BRC3084FB<br>1 DSE129<br>1 DSPREM891830<br>8 T7039  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO  |
| Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc<br>TeNSr<br>GTR8000<br>GTR8000   | 2 DQSB86283D084FB<br>2 DQSB862BRC3084FB<br>1 DSE129<br>1 DSPREM891830<br>8 T7039<br>8 X153AW  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE   |
| Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc<br>TeNSr<br>GTR8000<br>GTR8000<br>GTR8000  | 2 DQSB86283D084FB<br>2 DQSB862BRC3084FB<br>1 DSE129<br>1 DSPREM891830<br>8 T7039<br>8 X153AW<br>8 CA00855AA   | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER  |
| Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc<br>TeNSr<br>GTR8000<br>GTR8000   | 2 DQSB86283D084FB<br>2 DQSB862BRC3084FB<br>1 DSE129<br>1 DSPREM891830<br>8 T7039<br>8 X153AW  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE  |
| Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc<br>TeNSr<br>GTR8000<br>GTR8000<br>GTR8000<br>GTR8000   | 2 DQSB86283D084FB<br>2 DQSB862BRC3084FB<br>1 DSE129<br>1 DSPREM891830<br>8 T7039<br>8 X153AW<br>8 CA00855AA<br>8 CA00025AF  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER  |
| Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham<br>Graham   | Misc<br>Misc<br>Misc<br>TeNSr<br>GTR8000<br>GTR8000<br>GTR8000<br>GTR8000<br>GTR8000  | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER   |
| Graham  | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network   | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511   | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD  |
| Graham  | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network   | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119   | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT  |
| Graham  | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network   | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B   |
| Graham   | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Network Trak  | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER  |
| Graham   | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Network Trak Trak   | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM  |
| Graham  | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys  | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E   | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA   |
| Graham   | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Network Trak Trak   | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM  |
| Graham  | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys AntennaSys   | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E 1 DB878H120E  | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA RX ANTENNA  |
| Graham  | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys AntennaSys   | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E 1 DB878H120E 2 AntennaSys   | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA RX ANTENNA ANTENNA SYSTEM CABLES/CONN/MISC  |
| Graham   | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys AntennaSys Misc  | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E 1 DB878H120E 2 AntennaSys   | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA RX ANTENNA ANTENNA SYSTEM CABLES/CONN/MISC  |
| Graham                             | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys AntennaSys AntennaSys Misc Misc                              | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E 1 DB878H120E 2 AntennaSys  3 DQ25046066 2 DQSB86283D084FB                             | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA RX ANTENNA RX ANTENNA ANTENNA SYSTEM CABLES/CONN/MISC  B LINE SELF SUPPORTING ZONE 4 RACK COOPER B LINE CABLE MGMT  |
| Graham | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys AntennaSys AntennaSys Misc Misc Misc Misc Misc Misc Misc Mis | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E 1 DB878H120E 2 AntennaSys  3 DQ25046066 2 DQSB86283D084FB 2 DQSB862BRC3084FB          | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA RX ANTENNA RX ANTENNA ANTENNA SYSTEM CABLES/CONN/MISC  B LINE SELF SUPPORTING ZONE 4 RACK COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER                                    |
| Graham | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys AntennaSys AntennaSys Misc Misc Misc Misc Misc Misc Misc Mis | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E 1 DB878H120E 2 AntennaSys  3 DQ25046066 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA RX ANTENNA RX ANTENNA ANTENNA SYSTEM CABLES/CONN/MISC  B LINE SELF SUPPORTING ZONE 4 RACK COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P |
| Graham | Misc Misc Misc TeNSr GTR8000 GTR8000 GTR8000 GTR8000 GTR8000 TXRX Mux Network Network Network Network Trak Trak AntennaSys AntennaSys AntennaSys Misc Misc Misc Misc Misc Misc Misc Mis | 2 DQSB86283D084FB 2 DQSB862BRC3084FB 1 DSE129 1 DSPREM891830 8 T7039 8 X153AW 8 CA00855AA 8 CA00025AF 8 CA00882AA 1 DQ7483B05619E11 1 ST2500 1 ST2511 1 DKN6119 1 DSJ4900B 1 DSTRAK91009DC 2 DSTRAK91061 1 DB878H120E 1 DB878H120E 2 AntennaSys  3 DQ25046066 2 DQSB86283D084FB 2 DQSB862BRC3084FB          | COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER 120V 15A RACK MOUNT WITH 6 SURGE P UNIVERSAL ENCLOSURE TENSR 800 CHANNEL BANK GTR 8000 BASE RADIO ADD: RACK MOUNT HARDWARE ADD: 700/800 MHZ MID POWER ADD: MULTI SITE BASE RADIO SOFTWARE ADD: 700 MHZ TX FILTER COMBINER & MULTICOUPLER TXRX 764-806 MHZ S2500 MULTIPROTOCOL WAN ROUTER S2500 FLEXWAN DAUGHTER BOARD CABLE,V.35,FLEXWAN,DTE 10FT HP PROCURVE SWITCH 2626B REMOTE SITE CONFIG DCPOWER FOUR PORT DDM TX ANTENNA RX ANTENNA RX ANTENNA ANTENNA SYSTEM CABLES/CONN/MISC  B LINE SELF SUPPORTING ZONE 4 RACK COOPER B LINE CABLE MGMT CABLE MANAGEMENT BACK COVER                                    |

#### Attachment B

## **Pierce Transit**

## 700 MHz Equipment List and Description

| Hemlock | GTR8000    | 8 X153AW          | ADD: RACK MOUNT HARDWARE                 |
|---------|------------|-------------------|--|
| Hemlock | GTR8000    | 8 CA00855AA       | ADD: 700/800 MHZ MID POWER               |
| Hemlock | GTR8000    | 8 CA00025AF       | ADD: MULTI SITE BASE RADIO SOFTWARE      |
| Hemlock | GTR8000    | 8 CA00882AA       | ADD: 700 MHZ TX FILTER                   |
| Hemlock | TXRX Mux   | 1 DQ7483B05619E11 | COMBINER & MULTICOUPLER TXRX 764-806 MHZ |
| Hemlock | Network    | 1 ST2500          | S2500 MULTIPROTOCOL WAN ROUTER           |
| Hemlock | Network    | 1 ST2511          | S2500 FLEXWAN DAUGHTER BOARD             |
| Hemlock | Network    | 1 DKN6119         | CABLE, V.35, FLEXWAN, DTE 10FT           |
| Hemlock | Network    | 1 DSJ4900B        | HP PROCURVE SWITCH 2626B                 |
| Hemlock | Trak       | 1 DSTRAK91009DC   | REMOTE SITE CONFIG DCPOWER               |
| Hemlock | Trak       | 2 DSTRAK91061     | FOUR PORT DDM                            |
| Hemlock | AntennaSys | 1 DB844H90E       | TX ANTENNA                               |
| Hemlock | AntennaSys | 1 DB878H120E      | RX ANTENNA                               |
| Hemlock | AntennaSys | 2 AntennaSys      | ANTENNA SYSTEM CABLES/CONN/MISC          |
|         | •          | •                 |  |

#### Subscriber Radios

|            | T ( 10 1 1 | 0.57             |  |
|------------|------------|------------------|--|
| Subscriber | Consolette | 5 L20URS9PW1 N   | 10-35W 762-870MHZ XTL 5000 CONSOLET    |
| Subscriber | Portable   | 98 H66UCD9PW5 N  | ASTRO DIGITAL XTS1500 MODEL 1.5 764    |
| Subscriber | Portable   | 15 H46UCD9PW5 N  | PORTABLE ASTRO DIGITAL XTS 2500 764    |
| Subscriber | Mobile     | 128 M20URS9PW1 N | XTL 5000 MOBILE 10-35 WATT, 764-870MHZ |
| Subscriber | Mobile     | 411 M20URS9PW1 N | XTL 5000 MOBILE 10-35 WATT, 764-870MHZ |

## Attachment C

# **Pierce Transit**

# 700 MHz System Equipment Deployment Plan

| Month  | Activities                               | Number of<br>Base<br>Stations | Number of Subscribers |             |
|--------|--|-------------------------------|-----------------------|-------------|
| Dec-06 | Factory Test of System                   | 48                            | 657                   |             |
| Aug-07 | Install and Test 3 sites                 | 24                            | 3                     | Aug 20 2007 |
| Sep-07 | Install and Test 1 site                  | 8                             | 1                     | Aug-30-2007 |
| Oct-07 | Install and Test 2 sites                 | 16                            | 3                     |             |
| Oct-07 | Install and Test Backup control stations | 0                             | 5                     |             |
| Nov-07 | Install Test Vehicles                    | 0                             | 10                    |             |
| Feb-08 | Install Minifleet Vehicles               | 0                             | 10                    |             |
| Mar-08 | Fleet Installation & Portable Deployment | 0                             | 165                   |             |
| Apr-08 | Fleet Installation & Portable Deployment | 0                             | 180                   |             |
| May-08 | Fleet Installation & Portable Deployment | 0                             | 180                   |             |
| Jun-08 | Fleet Installation & Portable Deployment | 0                             | 100                   |             |
|        | Total                                    | 48                            | 657                   |             |